

Spectroanalytical Determination of Small
Quantities of Carbon in Steels and Welds, by
E. S. Kudelya, A. S. Dem'yanchuk,

RUSSIAN, Avtomat Svarka, ~~XXXXXXXX~~ Vol VI, No 1,
1953, pp 19-26.

13,736

Brutcher Tr
No 3270

Scientific - Min/Metals, Chemistry

Effect of Heat Treating Upon the Results of
Spectroanalysis of ~~Steel~~ Steel and Welds, by
E. S. Kudachin

RUSSIAN, per, Avto Svarka, Vol VI, No 1,
1953, pp 27-33.

Brutcher Tr 3272

15,967
Scientific - Minerals/Metals
Jul CTS/DEM Price \$5.40

**Development of Primary Structure of Welds in Low
Carbon and Low Alloy Steels by Electrolytic
Etching, by A. A. Bessonovskii**

**RUSSIAN, per, Avto Svarka, Vol 6, 1953, No 1,
pp 52-54.**

Butcher Tr No 3071

Scientific • Metallurgy

Price \$2.75

1376

Influence of Temperature and Time Upon Intergranular
Corrosion of Welds in 18-8 Type Steel, by
N. Yu. Pal'chuk,

RUSSIAN, per, Avtomat Svarka, Vol VI, No 2,
1953, pp 3-14.

Brutcher Tr No 3233
\$9.80

21,072

Scientific - Man/Metals

Feb 55 CTS

Electrodes for the Welding of Acid-Resisting Cr-Ni-Mo-Ti
Steels, by G. A. Ukolov.

RUSSIAN, per, Avtomaticeskaya Svarka, Vol VI, No 3,
1953, pp 46-49.

Brutcher Tr 3188

Scientific - Minerals/Metals

Price \$1.80

Nov 53 CTS

7340

Influence of Hydrogen, Oxygen, and Nitrogen Upon Forma-
tion of Hot Cracks in 18-8 Steel Welds. Part, I. D.
Zolotar. UNCLASSIFIED.

RUSSIAN, per, Avtomat Svarka, Vol VI, No 4, 1953,
pp 3-9.

SLA R-1920
Brutcher Tr No 3369

Scientific - Min/Metals

17,375

Influence of Hydrogen, Oxygen, and Nitrogen upon
Formation of Hot Cracks in 18-8 Steel Welds, Part III,
by D. I. Medovar,

RUSSIAN, per, Avtomat Svarka, Vol VI, No 4,
1953, pp 10-18.

Butcher Tr No 3370

Scientific - Min/Metals

13,728

Influence of Hydrogen, Oxygen, and Nitrogen
Upon the Formation of Hot Cracks in 18-8
Steel Welds. Part III, by D. I. Medovar.

RUSSIAN, per, Avtomat Svarka, Vol VI, No 4,
1953, pp 18-23.

Brutcher Tr

No 3371

SLA R-1926

\$4.20

Scientific - Minerals/Metals CTS/DEX

19,503

Electro-Slag Welding, by G. Z. Voloshkevich.

RUSSIAN, per, Atom Svarka, Vol VI, No 6,
1953, pp 3-10.

HD 4607

Sol - Engr

Nov 59

100,351

The Sigma Phase in 18-8 Austenitic Steel Welds,
by B. I. Medovar, A. A. Rossoshinskiy,

RUSSIAN, per, Avtomat Svarka, Vol XXX VII,
No 3, 1954, pp 26-40.

24,679

Brutcher Tr No 3516
\$8.60

SLA - R1949

Scientific - Min/Metals

Jun 55 CTS

On the Nature of Weld Hot Cracking, by B. I.
Medovar.

RUSSIAN, per, Avto-Maticheskaya Svarka, Vol VII,
No 4, 1954, pp 12-28.

Brutcher Tr
No 3400

Scientific - Min/Metals Jan 55 CTS/DEX

20,901

Interaction Between Slog and Metal in Electro-
slag ~~WELDING~~ Welding, by Yu. N. Gotal'skiy.

RUSSIAN, per, Avtomat Svarka, No 5, 1954,
pp 38-43.

Henry Bratcher 4437

Sci - Engr

Apr 59

83,670

Formation of Hot Cracks in Butt Welds With
Extension Tabs, by S. L. Mandel'berg, O.S. Zabarilo,

RUSSIAN, per, Avtomat Svarka, Vol VII, No 6, 1954,
pp 29-32.

27,850

Brutcher Tr 3550

Scientific - Min/Metals

Oct 55 CTS

Submerged Automatic Arc Welding of Rusty Steel,
by A. G. Mazel, B. P. Vasil'kov.

RUSSIAN, per, Avtomaticheskaya Svarka, Vol
VII, No 6, 1954, pp 44-51.

Brutcher, Tr No 3591
\$4.20

USSR

Sci - Engineering
Minerals/Metals

29,111

On the Problem of the Reasons for the Development
of Hot Cracks in Welding, by N. N. Prokhorov.
UNCL

RUSSIAN, per, Avtom Svarka, Vol VII, No 6,
1954, pp 52-58.

DSIR LIU M.1376

(loan)

Sci - Engr
Apr 60

112,676

Reasons for the Hot Cracking of Welds, ~~by~~ by
V. V. Podgayetskiy,

RUSSIAN, per, ~~from~~ Avtomat Svarka, Vol VII, No ⁶ 7,
1954, pp 73-76.

27,827

~~Brutcher~~ Brutcher Tr 3536

Scientific - Min/Metals

Oct 55 CTS

On the Nature of Intergranular Cracking of Welds
at High Temperature, by B. A. Movchan, L. A.
Poznyak.

RUSSIAN, no per, Avtomaticheskaya Svarka, Vol 8,
No 6, 1954, pp 59-72

Brutcher No 3572
\$9.40

Scientific - Min/Metals
Feb 56 CTS/dex

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Effect of Solubility of Alloying Elements upon Weld
Hot Cracking, by B. I. Medovar, 3700 words.

RUSSIAN, per, Avtomaticheskaya Svarka, Vol VIII, No 2,
1955, pp 79-90.

Brutcher No 3554
\$7.40

Scientific - Minerals/metals

26, 728

Sep 55

On One Form of Intergranular ~~Emss~~ Corrosion in Welds
in Stabilized 18-8 Steels (Knife-Line Attack),
by Yu. I. Kazennov,

RUSSIAN, per, Avtomat Svarka, Vol IX, No ² 2, 1955,
pp 91-93.

26,089

Brutcher Tr 3552
\$2.50

Scientific - Min/Metals

Aug 55 CTS

Special Features of Automatic (Semisubmerged)
Arc Welding of Aluminium and Its Alloys, by
D. M. Rabkin, 15 pp.

RUSSIAN, per, Avtomat Svarka, Vol VIII,
No 3, 1955, pp 13-25.

SLA 59-22671

Sci
Sep 61

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Some Problems of the Metallurgy of Semi-Automatic
Welding of Stainless Steel Using Unfused Siliceous
Fluxes, by A. I. Akulov.

RUSSIAN, per, Avtomaticheskaya Svarka, Vol VIII,
No 3, 1955, pp 50-54.

Butcher No 3794
\$3.20

Sci - Min/metals

40,650

Oxygen-Free Fluxes for Welding High-Alloy
Steels and Alloys, by B. U. Medovar, S. M.
Gurevich. UNCL

RUSSIAN, par, Avtom Svarka, No 4, 1955,
pp 31-41.

NLL no. 4267

RISI 1335

OTS 62-14315

(ik 5s.Od.)

114,290

Sol - Min/Hot
Apr 60

Effect of Structure of Flux on Porosity of Weld,
by V. V. Podgayetskiy, A. V. Isl'nik. UNCL

RUSSIAN, per, Avtom Svarka, No 4, 1955, pp 58-62.

British Iron and
Steel Ind 1336
(12 5n.Od.)

Sci - Min/Met
Sep 59

NLL 1.1.1.1.1.1

96, 027

Etching Agent for Macrostructure of Welds in
Steel, A. A. Rossoshinskiy, V. Ya. Sidlyarnenko.

RUSSIAN, per, Avtomaticheskaya Svarka, Vol VIII,
No 4, 1955, p 83.

Brutcher Tr
No 3690

\$1.25

Scientific - Min/Metals

May 56 CTS/DEX
34,046

Methods of Studying the Primary Structure of Welds, by
A. A. Rossoshinskiy.

RUSSIAN, bimo per, ~~Avtomaticheskaya Svarka~~, Vol VIII,
No 4, Kiev, 1955, pp 90-94.

Brutcher Tr 3992
\$2.75

Sci - Min/Met

57,026

Jan 58

Influence of Aluminium on the Properties of Welded
Seams With High Nitrogen Content, by B. S. Kasatkin,
N. I. Kakhovski. UNCL

RUSSIAN, ^{to GERMAN,}
per, Avtom Svarka, Vol VIII, No 5, 1955,
pp 3-13.

Verein Deutscher Eisenhuettenleute
Duesseldorf
Breite Strasse 27
Germany

The Temperature of A Weld Pool, by I. K. Pokhodaya,
I. I. Fruman, 11 pp.

RUSSIAN, per, Avtomat Svarka, No 5, 1955, pp 14-24.
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(LOAN) NLL Ref. 0578.9 1963 (1,223)

A.C.S.I.L. Tr 1283

Sci - Engr
Apr 63

229,305

Effect of Form of Current on Interaction of
Slag With Metal in Electroslag Welding, by
Yu. N. Gotsel'chik.

RUSSIAN, Tr. Avtomat Svarka, No 5, 1955.
pp 47-49.

Henry Bratcher 4438

Sci - Engr

Apr 59

83, 671

New Developments in the Welding of Heavy-Gage
Steel Plate, by M. M. Fishkis et al.

RUSSIAN, no per, Avtomat Svarka, Vol VIII, No 5,
1955, pp 74-77.

Henry Brucher

Tr No 3774

~~\$3.90~~ \$3.90 45,135

Sci - Engineering
Mar 1957 CTS/dex

On Brittle Fracture of Welded Storage Tanks and
Other Structures, by G. V. Rayevskiy, 28 pp.

RUSSIAN, per, Avtomat Svarka, No 6, 1955, pp 3-18.
9660730

ATTC MCL-569/III

Sci - Phys

Apr 61

147,894

IC040429-M

Some Problems Related to the Application of Automatic
Hard Facing of Rolls, by V. K. Petrichenko,
RUSSIAN, per, Avtom. Svarka, No. 6, 1955, pp 74-84.
BISI 5171

Serial Number

331, 923

Sci - Materials
Jul 1967

10 891

GE-1

B. I. MEDOVAR, N. A. LANGER

Corrosion destruction on the melting line of welds made with
type 18-8 stainless steels

Korrosionszerstörung von Schweissverbindungen aus nicht-
rostenden Stählen des Types 18-8 auf der Schmelzlinie

Avtomat. Svarka, 8, No. 6, 85-95 (1955)

German

E u r a t o m

Low-Silica Fluxes for Automatic Welding and for
Facing, by I. I. Frumin, et al.

RUSSIAN, no per, Avto Svarka. Vol IX, No 1,
1956, pp 3-20.

Brutcher No 3800

\$13.80

41,415

Sci - Engineering

Dec 56 CTS

13KH3GNMA Welding Wire for the Automatic
Welding of 30KL6SA Steel, by Slutskaya.
UNCLASSIFIED

RUSSIAN, per, Avtomat Svarka, ^{No 2} Mar/Apr 1956,
pp 12-17.

NLL M.4175
Co-op Tr Scheme
Tr 730
(LL.15.0)

Sci - Eng
Apr 58

62,670

Static Strength of Spot-Welded Joints, by A. N.
Dorofeyev,

RUSSIAN, per, Avto Svarka, Vol IX, No 2 (7), 1956,
pp 58-66.

Brutcher Tr 3802
\$7.60

Sci - Engg
Jul 58

66, 284

Ultrasonic Flaw Detection in Butt Welds, by A. K.
Gurvich. UNCL

RUSSIAN, per, Avtom Svarka, Vol IV, No 2, 1956,
pp 68-75.

British Iron and Steel Ind
(no number given)

Sci - Phys
Sep 59

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Thermal Expansion as a Basis for Control of Spot
Welding of Duralumin, by Su. A. Pachentsev.

RUSSIAN, per, Avtomat Svarka, Vol IX, No 3, 1956,
pp 65-71.

Brutcher Tr 3978
\$5.40

Sci - Min/Met

Apr 58

61,441

Fluxes for Electroslag Welding, by V. Y. Podgayatskiy,
32 pp.
RUSSIAN, per, Avtomat Svarka, No 4, 1956, pp 30-49.
JPRS 24769

Sci-Mat & Met
Jun 64

260,410

Welded Joints and Residual Stresses, by V. I.
Trufyakov. UNCL

RUSSIAN, per, Avtom Svarka, No 5, Oct 1956.

(Held in TIL -- no other info)

Feb 59

Carbon-Dioxide Shielded, Consumable-Metal Arc
Welding of Alloy Steels, by B. S. Kasatkin,
et al.

RUSSIAN, per, Avtomat Svarka, Vol IX, No 5,
1956, pp 19-21.

HB 4890

OTS 62-10140

Sci - Engr

Sep 60

127,041

Flat Coiled Thin-Walled Electrically Welded
Tubes, by G. V. Rayevskiy. UNCL

RUSSIAN, per, Avton Svarka, No 5, 1956,
pp 22-30.

DSIR LNU RTS 1282

~~(S-1)~~ (LL.2a.61.)

Sci - Engr

Feb 60

108,342

A Method for the Rapid Analysis of Flux
AN-348-A, by E. A. Langer, T. P. Novikova. UNCL

RUSSIAN, per, Avtom. Svarka, No 5, 1956, p 80-83.

British Iron and
Steel Ind 1284
(12)

Sci - Phys
May 59

N22 M. 4/5 74

86,776

Ultrasonic Inspection of Fillet Welds,
by A. K. Gurvich.

RUSSIAN, per, Avtomat Svarka, Vol ~~X~~ VII, IX,
No 5, 1956, pp 84-89.

HB 4489

Sci - Engf

Jan 62

178, 311

Frumin, I. I.
PREVENTION OF PORES DURING SUBMERGED ARC
WELDING AND WELD SURFACING (Preduprezhdeniye
per pri Svarke i Naplavke pod Flyusom). Apr 61 [49]p.
67 refs. RTS 1779.
Order from OTS or SLA \$4.60 61-19691

Trans. of Avtomaticheskaya Svarka (USSR) 1956 [v. 9]
no. 6, p. 1-30.

DESCRIPTORS: *Arc welding, *Arc welds, *Hydrogen,
*Porosity.

The paper examines experimental data on the formation
of pores, and the most important technological and
metallurgical factors. It shows the part played by hy-
drogen as the main cause of porosity, as well as the
part played by nitrogen, carbon monoxide and water
vapour. A theoretical analysis is given of the processes
in the gas phase, the weld pool and in the slag which
lead to the appearance of pores; methods of preventing
(Machinery--Manufacturing, TT, v. 6, no. 1) (over)

61-19691

I. Frumin, I. I.
II. RTS-1779
III. Department of Scientific
and Industrial Research
(Gt. Brit.)

161813

Office of Technical Services

Effect of Composition of Iron-Chromium-Carbon
Alloys on Weld Hot Cracking Susceptibility, by
I. K. Pokhodnya.

RUSSIAN, per, Avtomat Svarka, Vol IX, No 6, 1956,
pp 55-63.

Brutcher Tr 4168
\$7.35

Sci - Engr

Aug 58

68,204

Segregation in Fusion Zone and in Solidification Layers
as Related to the Diffusion Between Solid and Liquid/
Phases in the Freezing of Welds, by A. M. Makara, A. A.
Rossoshinskiy.

RUSSIAN, bimo per, Avtomaticheskaya Svarka, Vol IX, No 6
(51), Kiev, 1956, pp 65-76.

Brutcher Tr 3991
\$9.80

Sci - Min/Met

57,025

Jan 58

On Localized Heat Treatment of Welded Joints,
by B. S. Kosobkin, A. A. Rossoshinskiy. UNCLASSIFIED

RUSSIAN, see, Avtomaticheskaya Svarka, Vol X, No 1,
Jan-Feb 1957, pp 31-35.

Navy 2550/BuShips 600

Sci - Eng
Jun 60

115, 712

The Spectral Analysis of Fused Welding Fluxes,
by E. S. Kudelya. UNCLASSIFIED

RUSSIAN, per, Avtom Svarka, No 1, 1957,
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NEL M. 4080
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Sci- Phys
Jan 59

78,435

Mechanism of the Formation of Crystalline Cracks
During Welding and Hard Facing, by I. I. Frumin,
24 pp.

RUSSIAN, per, Avtomat Svarka, No 1 (52), 1957,
pp 88-102. 9660807

ATIC MCL-467
ATS-22L36R

Sci - Engr

May 61

150, 192

The Mechanism of Formation of Crystallization Cracks
During Welding and Depositon of Beads, by I. I.
Frumin, 14 pp.

RUSSIAN, per, Avtomat Svarka, Vol X, No 1(52),
1957, pp 88-102.

ATS-22L36R

Sci

Jun 60

Handwritten:
A-10 MCL 476
CIP 96607-1
118,305

Effect of Columbium on the Structure of Welds in
Austenitic 18-8 Steel, by G. G. Mukhin, N. Yu.
Pal'chuk.

RUSSIAN, per, Avtomat Svarka, Vol X, No 2, 1957,
pp 1-10.

Henry Bratcher 4412
\$9.85

Sci - Engr

EH Jan 59

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All-Austenite Welds Not Susceptible to Hot
Cracking, by B. I. Medovar, Yu. V. Latosh.

RUSSIAN, per, Avtomat Svarka, Vol X, No 2,
1957, pp 32-45.

HB 4464

Sci -Engr British Welding Research Association
Abington Hall
Abington, Cambridge
BWRA/Tr 5/59

Dec 59

104,351

10 892

GE-1

B. I. MEDOVAR, N. A. LANGER, Yu. V. LATASH

Intercrystalline corrosion in sulphuric acid of fully austenitic steels and welds caused by deformation under pressure

Interkristalline Korrosion in Schwefelsäure von vollaustenitischen Stählen und Schweissungen bedingt durch Druckverformung

Avtomaticeskaya Svarka, 10, No. 1, 46-50 (1957)

German

E u r a t o m

Ultrasonic Fault Detection in Electroslag Welding
Joints, by N. B. Khimtchemko, V. P. Esileoskiy,
V. A. Tsechal.

RUSSIAN to GERMAN, per, Avtom Svarka, No 2, 1957,
pp 70-78.

ID-U 687

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Übersetzungsnachweis
Berlin, W 8
Unter den Linden 8

Dec 59

The Multiple-Pass Welding of Thick Metal in a
Protective Medium of Carbon-Dioxide Gas,
by D. A. Dudko, et al. USSR

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pp 58-63.

DSIR LUN RTS LUNO

(10s. 08.)

Sci - Engr
Nov 59

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Some Problems in the Electroslag Welding of
Titanium, by S. M. Gurevich, V. P. Didkovskiy.

RUSSIAN, per, Avtomat Svarka, No 3 (54), 1957,
pp 85-91.

ATS RJ-2070

Sci - Chem
Dec 59

OTS 62-2045

104,071

New Welding Generator Circuits and Their Use
for Welding in Shielding Gases, by G. M.
Kasprzhak, E. I. Slepshkin. UDC 16pp.

RUSSIAN, per, Avton Svarka, No 3, 1957,
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Russian to Spanish
OTS TT-63-16730

SLA 60-13432
DSIR LIA ~~1311~~ RTS 1311

(11 Cs. Od.)

Sci - Engr
Nov 59

100,758

Siunov, N.S. and Urmanov, R.N.
ANALISIS DE LOS ESQUEMAS DE SOLDADURA
POR ARCO TRIFASICO USANDO BOBINAS DE RE-
GULACION MONOFASICAS (Analiz Skhem Svarki
Trehfaznoi Dugoi s Ispol'zovaniem Odnofaznykh
Reguliruemykh Drosslei) (Analysis of Triphasic
Arc Welding Patterns with Monophasic Control Elec-
tric Coils). 29p. 9refs. CID:63-333.
Order from OTS, ETC or CID \$2.60 TT-63-26733

Trans. in Spanish of Avtomaticheskaya Svarka
(USSR) 1957, v.10, no.4, p.1-14.

DESCRIPTORS: Analysis, Wiring diagrams, *Arc
welding, *Control systems, Coils,

(Metallurgy, TT, v. 11, no. 11)

TT-63-26733

- I. Siunov, N.S.
- II. Urmanov, R.N.
- III. CID 63-333
- IV. Centro de Información
y Documentación,
Madrid

Office of Technical Services
European Translations Centre

Spectral Analysis of Certain Titanium Alloys and Their
Weld Joints, by V. V. Bogdanova, Ye. S. Kudalya, 9 pp.

RUSSIAN, per, Avtomaticheskaya Svarka, No 4, (55),
1957, pp 29-32. *CIA 313.713*

ATTC 7-TS-9412/III

Sci - Minerals/Metals
Jun 58

65, 627

Some Problems of Crystallization Cracking in
Electroslag Welding, by S. A. Ostrovskaya.

RUSSIAN, per: Avtomat Svarka, No 4, 1957,
pp 33-47.

HB 4859

Sci - Eng

Aug 60

123,078

Method of Obtaining a Collodion Replica of
a Known Region of a Specimen for Electron
Microscope Examination, by Yu. B. Malevskiy,
G. F. Darovskiy.

RUSSIAN, per, Avtomat Svarka, No 4,
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CSIRO

Sci - Electron
Mar 62

189,285

The Use of Aluminum Welded Structures, by D. W.
Fabkin, 4 pp.

RUSSIAN, per, Avtomat Svarka, No 4, Kiev, 1957,
pp 107-112.

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USSR

Sci - Minerals/Metals

Dec 58

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Certain Characteristics of Welding Titanium
Under Flux, by S. M. Gurevich, 17 pp.

RUSSIAN, per, Avtomat Svarka, No 5, 1957,
pp 38-48. 9668578

PTD-TT-63-22

Sci-Materials & Metallurgy
May 63

230,888

Über die Teilnahme des Zusatz-und Grundwerkstoffes an
den Metallurgischen Reaktionen bei im Elektro-
Schlacke-Schweißvorgang, by D. A. Dudko, In. N.
Rublevskiy. (unpubl tr)

RUSSIAN to GERMAN, per, Avtom Svarka, No 5, 1957,
pp 56-60.

IDU 682
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Berlin, W. 8
Unter den Linden 8

Apr 60

Automatic Fusing on With Band Electrodes, by F. A. Khomusko.

RUSSIAN to GERMAN, per, Avtom Svarka, No 5, 1957, pp 76-85.

ID-U 688

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Dec 59

Mechanisms for the Diffusion of Cu in Fe and Steel,
by I. I. Szhevaga.
RUSSIAN, per, Avtom Svarka Sborn, No 6, 1957,
pp 87-90.
*CFSTI TT 70-59116

Sci-
June 70

Secondary Carbides and the Formation of the
Phase in Weld Seams of Stable Austenitic
Steel Type 20-20, by Yu. B. Malevskiy, B. I.
Medovar, 10 pp.

RUSSIAN, per, Avtomat Svarka, Vol X, No 5,
1957, pp 86-94.

AEC Tr-4203

Sci - Min/Met
20 Oct 60

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Dynamic Characteristics of the Power Source
in Automatic Inert-Gas-Shielded Welding, by
V. M. & Shchitova, I. Ya. Rabinovich.

RUSSIAN, per, Avtomat Svarka, Vol XI, No 1,
1958, pp 44-47.

HB 6034

Sci-M/M

Nov 63

243,429

Fine Structure (Granular and Subgranular) and Its
Influence on the Impact Strength of Welds, by
B. S. Kasatkin, E. L. Karata, D. F. Darovsky. UNCL

RUSSIAN, per, Avtomat Svarka, No 2, 1958, pp 20-29.

DSIR LLU M.590

(loan)

Sci - MIA/mot

Oct 59

also
ZwRA / 10/59
British Welding Res Assoc
Abington Hall
Abington, Cambridge, 987

Electron Microscope Examination of Welds in
Titanium, by V. P. Grabin, S. M. Gurevich. USSR

RUSSIAN, per, Avtomat Svarka, No 2, 1958, pp 37-41.

DSIR LILU M.592

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Sci - Electronics; Eng

Oct 59

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T of C

RUSSIAN, per, Avtomaticheskaya Svarka, No 3, Mar 1958.

AMS Lib Tr

Sci - Engineering
Sep 58

CO₂ Welding of 20 KhMF Heat Resistant Steel, by B. S. Kasatkin, Yu. N. Vakhnin.

RUSSIAN to GERMAN, per, Avtom Svarka, No 3, 1958, pp 3-11.

ID-U 707

Institut fuer Dokumentation-
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Berlin, W 8
Unter den Linden 8

Dec 59

Fatigue Strength of Welded Joints in MSt 3 Steel,
Containing Up to 0.15% of As., by A. K. Agnia.
UNCL

RUSSIAN, per, Avtomat Svarka, No 3, 1958,
pp 24-34.

GB/326/TR 4/59

DSIR LLU M.593

(loan)

Sci - Min/Wat
Oct 59

BWRA Tr 4/59
British Welding Res Assoc
Abington Hall
Abington, Cambridge

98,992

Influence of Low Temperatures on the Impact
Tensile Strengths of Welded Joints, by Yu. P.
Satayev. UNCL

RUSSIAN, per, Avton Svarka, No 3, 1958,
pp 57-61.

BWRA/Tr 7/59
British Welding Research Association
Abington Hall
Abington, Cambridge

Feb 60

106, 710

Influence of the Type and Polarity of the Current
on Metallurgical Processes During Electro-slag
Welding, by D. A. Dudko, I. N. Rublevskiy.
RUSSIAN, per, Avtomaticheskaya Svarka, No 3,
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BISI 3780

Sci - M/M
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Automatic Welding, 2 pp.

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Engr Res Devel Lab

Sci - Engr

Dec 58

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GE-1

KAKHOVSKII N. I.

CO₂-welding of 2 Ch 13 high chromium steel

CO₂-Schweissung hochchromhaltigen Stahles der Marke
2 Ch 13

* Avtom. Svarka, 11, No. 4, 44-54 (1958)

German

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On Drop Transfer of Electrode Metal During
Electroslag Welding, by D. A. Dudko,
I. N. Rublevskiy, 13 pp.
RUSSIAN, per, Avtomat Svarka, No 4,
Apr 1958, pp 24-31.
JPRS 24940

Sci - M/M
Jun 64

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Determination of the Composition of Steel
Weld Metal by Electric Spark Sampling, by
E. S. Kudalya. UNCL

RUSSIAN, per, Avtom Svarka, No 4, 1958,
pp 67-71.

OTS 62-2014/
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British Welding Research Association
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Sci - Min/Met
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Lonskii, E. D.

THE POSSIBILITY OF ATTAINING EQUILIBRIUM IN
THE SLAG-METAL SYSTEM DURING ELECTRIC ARC
WELDING. [1962] [18]p. 8 refs.

Order from OTS or SLA \$1.60

62-20144

Trans. of Avtomaticheskaya Svarka (USSR) 1958, v. 11,
no. 4, p. 72-83.

DESCRIPTORS: *Arc welding, *Electric welding, *Slags,
Metals, *Chemical equilibrium

The object of the present investigation was to determine
whether the conditions observed in general metallurgi-
cal practice also apply in the case of welding. The in-
vestigation was carried out in three directions. The
composition of the metal and slag formed by the fusion
of electrodes with core wires of different grades of
steel, of electrodes with different amounts of ferroman-
ganese in the coatings and of electrodes with two-
(Metallurgy, TT, v. 9, no. 11)

(over)

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1. Lonskii, E. D.

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Automatic Welding of Large Diameter Pipes, by N. I. Voronov.

RUSSIAN to GERMAN, per, Avtom Svarka, No 4, 1958, pp 89-91.

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RUSSIAN, per, Avtomat Svarka, No 5, Kiev, 1958,
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Engr Res Devel Lab
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The Thermal Theory of the Electric Arc, by G.
Leakov, G. I. Pogodin-Alekseyev.

RUSSIAN, per, Avtomat Svarka, Vol XI, No 5,
1958, pp 72-82.

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Oct - May

Oct 60

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Practical Application of Modern Achievements
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RUSSIAN, per, Avtom Svarka, Jun 1958, pp 3-12.

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Sci - Engr
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nikov, R. O. Lents.

RUSSIAN, per, Avtomat Svarka, Vol XI, No 6,
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Zaruba, I. I. and Potap'evskii, A. G.
SPECIAL FEATURES OF CO₂ ARC WELDING WITH
A THIN ELECTRODE WIRE [Osnobennosti Protsessa
Svarki Tonkoi Elektrodoi Provoloek v Srede Uglekio-
logo Gaza]. Jan 60.
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Trans. of Avtomaticheskaya Svarka (USSR) 1958 [v. 11]
no. 6, p. 32-41.

DESCRIPTORS: *Arc welding, Carbon dioxide, Elec-
trodes, Wire.

(Machinery--Manufacturing, TT, v. 6, no. 6)

61-22748

I. Zaruba, I. I.
II. Potap'evskii, A. G.
III. MT Trans-21
IV. Tollemache, M. de O.
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Changes in Slag Composition During a Process of
Electro-Slag Welding, by ~~†~~ D. A. Dudko,
I. N. Rublevskiy,
RUSSIAN, per, Avtomaticheskaya Svarka, No 6,
1958, pp 51-55.
BISI 3779

Sci - Electron
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Some Features in the Electroslag Melting of Large
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Ye. O. Paton, 10 pp.
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Sci - Elect
May 64

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Effect of Columbium on the Structure of Welds
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RUSSIAN, per, Avtomat Svarka, Vol XI, No 6,
1958, pp 84-87.

Henry Bratcher 4413
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Sci - Chem

Apr 59

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Formation of a New Phase in 18-8 Steel Welds
Containing Columbium¹ by G. G. Makhin, N. Yu.
Pal'chuk.

RUSSIAN, per, Avtomat Svarka, Vol XI, No 6,
1958, pp 88-91.

Henry Bratcher 4462
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Sci - Chem

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RUSSIAN, per, Avtomat Svarka, No 7, Kiev, 1958,
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Engr Res Devel Lab
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Sci - Engr

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Potap'evskiy, A. G.
METAL FUSION AND TRANSFER IN CO₂-SHIELDED
WELDING WITH A THIN WIRE (Plavleniye i Perenos
Metalla pri Svarke Tonkoy Provolokoy v Sprede
Ugletislogo Gasa). Mar 61 (16)p. 8 refs. RTS 1778.
Order from LC or SLA m/\$2.40, ph/\$3.30 61-19109

Trans. of Avtomaticheskaya Svarka (USSR) 1958, v. 11
no. 7, p. 52-59.

The electrode fusion and metal transfer processes have
been examined for CO₂-shielded welding with type
Sv-10GS wire 0.5 to 1.2 mm in diameter, and also the
nature of energy dissipation in the arc. The influence
of welding condition parameters on metal fusion and
transfer have been investigated. (Author)

(Machinery--Manufacturing, TT, v. 5, no. 10)

61-19109

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2. Wires--Applications
- I. Potap'evskiy, A. G.
- II. RTS-1778
- III. Department of Scientific
and Industrial Research
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LSH (25.00)

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Office of Technical Services

Universal Electrolyte for the Polishing of
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Carbon Steels, and Titanium Alloy VT-5,
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RUSSIAN, per, Avtomat Svarka, Vol XI, No 7,
1958, pp 83, 84.

Henry Bratcher 4421.
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Sci - Engr

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Engr Res Devel Lab T-332

Sci - Engr

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On the Electrical Circuits of Machines for
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ID 2109497
RUSSIAN, per, Avtomat: Svarka, No 8, 1958.

UBASIA 1035

Sci - Engr

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